



## Technical Specifications

**Product Line: RG59CM-18-2C**

### Description

Composite cable 1 pair 18 AWG stranded, twisted and unshielded power pair with a 20 AWG RG59 CCTV coaxial cable in parallel and jacketed

NEC type CM and CEC type CMG FT4. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

### Component 1:

RG59 coaxial cable  
20 AWG solid annealed bare copper conductor  
Foamed polyethylene dielectric  
Wall thickness: 0.056" | 1.42mm  
Diameter: 0.140" | 3.56mm  
95% 16x9/36 AWG bare copper braid shield  
Polyvinyl chloride jacket  
Thickness: 0.034" | 0.86mm  
Diameter: 0.212" | 5.38mm

### Component 2:

18 AWG 2 conductor power cable  
7-strand annealed bare copper conductors  
Semi rigid polyvinyl chloride insulation  
Wall thickness: 0.018" | 0.457mm  
Diameter: 0.084" | 2.14mm  
Polyvinyl chloride jacket  
Thickness: 0.014" | 0.35mm  
Diameter: 0.160" | 4.06mm

### Color Code

18 AWG: Black, White

### Assembly

A jacketed coaxial cable and a jacketed 18/2 power cable ran in parallel and joined by a web

### Construct

N/A

### Shield

See individual component descriptions

### Jacket

Polyvinyl chloride  
Colors: Black  
Coax: Wall thickness: 0.014" | 0.35mm  
Diameter: 0.212x0.380" | 5.38x9.65mm

### Electrical

DC resistance: 10.3  $\Omega$  / 1000' | 33.9  $\Omega$ /KM  
Shield DCR: 2.70  $\Omega$  / 1000' | 8.86  $\Omega$ /KM  
Mutual capacitance: 16.2 pF/FT | 53.1 pF/M  
Impedance: 75  $\pm$  3  $\Omega$   
Velocity of Propagation: 84%  
Voltage rating: 300V  
SRL 5-300 MHz: -20dB  
18 AWG DCR: 5.94  $\Omega$  / 1000' | 19.48  $\Omega$ /KM  
Maximum current: 3.75A@25°C

### Regulatory

NEC: CM 75°C  
CEC: CM 60°C  
EU RoHS 2002/95/EC Compliant

### Packages

Reel: 1000' | 305M  
Weight: 46 Lbs/1000' | 69 Kg/KM

### Installation

Pull Tension: 66 Lbs | 132 N  
Bend radius: 2.12" | 54mm unloaded  
Bend radius: 4.24" | 108mm loaded

### Applications

General purpose security video and control  
General purpose Pan-Tilt-Zoom infrastructure cable

### Performance

CCTV to 493 feet

### Final Outside Diameter (inches)

.212x.380





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Specification Revision Date:

September 18, 2006

RG59 Sweep to 1.0 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.23	0.75
10	0.78	2.56
50	1.79	5.87
100	2.56	8.40
200	3.70	12.14
400	5.34	17.52
700	7.10	23.29
900	8.01	26.27
1000	8.51	27.91

